

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1.-2. Cancelled.

3. (Currently amended): A reduction device of an industrial robot comprising:

a robot base installed in an XY plane of XYZ orthogonal coordinates;

a rotating barrel portion rotatably attached to the robot base to rotate around a rotating shaft connected to the robot base;

a lower arm of which one end is axially supported by the rotating barrel portion;

an upper arm of which one end is axially supported by other end of the lower arm;

a large gear fixed to the lower arm; and

a small gear meshing with the large gear and axially supported in the rotating barrel portion,

wherein a rotational center of the small gear is arranged within an angular range from the rotational center of the large gear, said angular range being ± 35 degrees from a reference plane, and

wherein said reference plane is defined as a plane parallel to a rotating barrel portion rotational plane, orthogonal to the rotating shaft, and including a rotational axis of the large gear.

4.-6. Canceled.